

IN THE CLAIMS:

Please CANCEL claims 1-12, 25, 29 and 30 without prejudice to or disclaimer of the recited subject matter.

Please AMEND claims 26-28, and ADD new claims 36-38, as follows. For the Examiner's convenience, all claims currently pending in this application have been reproduced below:

1. (Cancelled)

2-11. (Previously Cancelled)

12. (Cancelled)

13-24. (Previously Cancelled)

25. (Cancelled)

26. (Currently Amended) An exposure method using a discharge lamp as a light source, said method comprising steps of:

recognizing the type of discharge lamp; and

automatically setting at least one of optical conditions, power source conditions and cooling conditions based upon the recognition made made.

wherein said recognizing step is performed based on detecting a pressure of a gas which is supplied in a passageway provided with a holder for mounting the discharge lamp.

2 ~~21~~. (Currently Amended) The method according to claim ~~26~~¹, further comprising performing at least one of (i) a step of inhibiting firing of the discharge lamp and/or of and (ii) issuing a warning in a case where when the type of discharge lamp cannot be recognized.

3 ~~28~~. (Currently Amended) The method according to claim ~~26~~¹, further comprising:
a step of sensing whether a discharge lamp has been mounted; and
performing at least one of (i) inhibiting firing of the discharge lamp and/or of and (ii) issuing a warning in a case where when a discharge lamp has not been mounted.

29. (Cancelled)

30. (Cancelled)

~~31. (Withdrawn) A discharge lamp used as a light-emitting source of a light source device, said discharge lamp having a mark or shape capable of being recognized by a sensor when the discharge lamp is used in said device.~~

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32. (Withdrawn) The discharge lamp according to claim 31, wherein said mark or shape uses any of a three-dimensional shape, planar shape, pattern, coloring, reflectivity and audio.

33. (Withdrawn) The discharge lamp according to claim 31, wherein said discharge lamp is formed to have a groove or hole capable of being sensed by a sensor provided in the vicinity of a holder of said discharge lamp.

34. (Withdrawn) The discharge lamp according to claim 31, wherein the mark or shape with which said discharge lamp is provided functions to achieve a plurality of applications.

35. (Withdrawn) The discharge lamp according to claim 34, wherein the plurality of applications are identifying the type of discharge lamp, identifying whether a discharge lamp is mounted or not, or cooling the discharge lamp.

4 36. (New) A device manufacturing method using an exposure apparatus, said method comprising steps of:

providing an exposure apparatus using a discharge lamp as a light source; and
performing exposure using the exposure apparatus, wherein the exposure apparatuses comprises a sensor for recognizing the type of discharge lamp mounted in a holder for mounting the discharge lamp or recognizing whether a discharge lamp has been mounted in said holder; and

detecting, by the sensor, a pressure of a gas which is supplied in a passageway provided with the holder and performing the recognition based on the detected pressure.

5 ~~37~~. (New) A discharge lamp used as a light source of an exposure apparatus, said discharge lamp comprising:

a shape capable of being recognized by a sensor when the discharge lamp is used in the exposure apparatus,

wherein the exposure apparatus uses said discharge lamp as a light source and comprises:

the sensor for recognizing the type of discharge lamp mounted in a holder for mounting said discharge lamp or recognizing whether said discharge lamp has been mounted in the holder,

wherein the sensor detects the shape of said discharge lamp and performs the recognition based on the detected result.

6 ~~38~~. (New) A discharge lamp used as a light source of an exposure apparatus, said discharge lamp comprising:

a shape capable of being recognized by a sensor when the discharge lamp is used in the exposure apparatus,

wherein the exposure apparatus uses said discharge lamp as a light source, and comprises:

a sensor for recognizing the type of discharge lamp mounted in a holder for mounting said discharge lamp or recognizing whether said discharge lamp has been mounted in the holder; and

a controller for setting at least one of optical conditions, power source conditions and cooling conditions in dependence upon the type of discharge lamp mounted in the holder,

wherein the sensor detects a pressure of a gas which is supplied in a passageway provided with the holder and performs the recognition based on the detected pressure, and

wherein the setting by the controller is performed based on the result of the recognition by the sensor.